



**ELIZADE UNIVERSITY, ILARA-MOKIN,
ONDO STATE, NIGERIA**

**BASIC & APPLIED SCIENCES
BIOLOGICAL SCIENCES
SECOND SEMESTER EXAMINATION
2018/2019 ACADEMIC SESSION**

**COURSE CODE: BIO 210
COURSE TITLE GENERAL PHYSIOLOGY I
DURATION: 2 HOURS**

HOD's SIGNATURE

NAME:.....MAT. No:.....

INSTRUCTION

ANSWER ANY THREE QUESTIONS

QUESTIONS

1.
 - a) Discuss the adaptation for water management in desert and terrestrial animals.
 - b) Explain temperature regulation in Poikilotherm and Homoitherm.
 - c) Difference between:
 - i. Osmoconformers and Osmoregulators
 - ii. Euryhaline and Stenohaline
 - iii. Intercellular and Extracellular

2.
 - a) Why is excretion an essential requirement in plant and animals?
 - b) Explain the following:
 - i. Guttation
 - ii. Transpiration
 - iii. Diffusion
 - c) Use a diagram to illustrate the parts of the kidney.

3.
 - a) What are the general characteristics of fluid feeders?
 - b) Write short note on the functions and deficiencies of the following
 - i. Iron
 - ii. Calcium
 - iii. Vitamin K
 - c) What is the significance of food vacuole in lower invertebrate such as amoeba?

4.
 - a) Briefly describe the process of digestion in humans.
 - b) Explain the difference between open and close circulation.
 - c) Explain the significance of stomata and Lenticel in plants.

5.
 - a) Discuss the disproportionate length of Helen's Loop found in some animals.
 - b) Highlight the differences between osmotic potential and ionic potential.
 - c) Account for the differences in length of the digestive tracks between herbivores and carnivores.